

A SYSTEM AND METHOD FOR STRATEGIC POWER REDUCTION IN A
COMPUTER SYSTEM

ABSTRACT OF THE DISCLOSURE

A system and method are provided for strategic power reduction in a computer system. The system and method includes a plurality of processing resources that process data. Associated with the processing resources are a plurality of power supplies that provide power for the processing resources. A resource management engine determines the demand on the computer system and scales the processing resources to conserve and reduce power consumption. The resource management engine brings online additional processing resources to meet additional demand or brings offline or to a lower power state processing resources to meet a decreased demand. In addition, the resource management engine predicts future demand requirements and adjusts the processing resources in advance to meet the predicted demand levels and allows for dynamic adjustment of the processing resources based on current demand events.